

**NUCLEIC ACID ANTIOXIDANT COMPOSITIONS, METHODS FOR OBTAINING SUCH  
COMPOSITIONS AND FORMULATIONS THEREOF**

**ABSTRACT**

Compositions containing purified nucleic acid wherein the nucleic acid acts as an antioxidant. Such compositions also include materials subject to oxidative damage such as  
5 antioxidants, vitamins, lipids, foods and pharmaceuticals. The invention also includes methods for preparing such compositions. These methods include dissolving the nucleic acid and a hydrophilic material in an aqueous solution, which may later be dried or further processed. Additionally,  
10 nucleic acid may be coupled with a molecule having hydrophobic and hydrophilic regions and then solubilized in a hydrophobic material. It may also be shaped into small aggregates and added to a hydrophobic material.